

Comparisons of Job Characteristics

Focus Occupation: **Commercial Pilots (53-2012)**

Associated Occupation: **Aircraft Mechanics and Service Technicians (49-3011)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 51

Focus Occupation: Commercial Pilots (53-2012)

Associated Occupation: Aircraft Mechanics and Service Technicians (49-3011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	22.8	14.6	<<	Extensive education and/or training may be required
Design	5.2	13.5	4.2	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	12.3	7.4	<<	Extensive education and/or training may be required
Physics	4.3	10.9	10.9	0	Current knowledge level may be sufficient
Chemistry	4.8	10.6	6.1	<<	Extensive education and/or training may be required
Transportation	4.6	9.8	18.7	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 9

Focus Occupation: Commercial Pilots (53-2012)

Associated Occupation: Aircraft Mechanics and Service Technicians (49-3011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	17.2	2.3	<<	Extensive development of skills in this area may be required
Repairing	3.4	15.9	1.0	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	13.9	6.2	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	13.5	15.0	>	Skill level is likely sufficient

Quality Control Analysis	5.9	12.8	4.8	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	9.1	1.4	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 69			
Focus Occupation: Commercial Pilots (53-2012) Associated Occupation: Aircraft Mechanics and Service Technicians (49-3011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	14.8	9.4	<<	Extensive improvement in abilities may be required
Control Precision	6.6	14.4	15.1	0	Current ability level may be sufficient
Problem Sensitivity	11.1	14.4	15.3	0	Current ability level may be sufficient
Manual Dexterity	6.5	13.9	10.4	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	12.8	12.2	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	12.2	10.4	<	Some improvement in abilities may be required
Flexibility of Closure	7.8	11.1	9.5	<	Some improvement in abilities may be required
Perceptual Speed	7.4	10.7	11.6	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	10.7	9.7	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 12
Focus Occupation: Commercial Pilots (53-2012) Associated Occupation: Aircraft Mechanics and Service Technicians (49-3011)		
Work Activities		Exclusivity of Activity
Understand technical operating, service or repair manuals		6

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 34	
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Focus Occupation: Commercial Pilots (53-2012)
Associated Occupation: Aircraft Mechanics and Service Technicians (49-3011)

Tools and Technologies	Exclusivity
Air transportation support systems and equipment	51
Computer printers	2
Computers	1
Data management and query software	1
Electrical measuring and testing equipment	7
Holding and clamping tools	3
Industry specific software	1
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.